

# Epoxyguard® Enamel



Pre-Catalyzed Waterbased Epoxy



MADE IN U.S.A.

## PRODUCT DESCRIPTION:

**EPOXYGUARD ENAMEL** is a one component water-based epoxy fortified acrylic blend. It is formulated to create a very tough and durable finish for all properly prepared and primed vertical concrete, masonry, drywall, plaster, metal and wood surfaces. **EPOXYGUARD ENAMEL** is highly resistant to scuffing, peeling, and fading.

### ADVANTAGES

- Antimicrobial
- USDA Acceptable
- Low VOC, Zero HAPs
- UV Resistant
- Interior/Exterior
- Extremely Durable
- Easy-To-Use, Water Clean-Up
- Tintable

\*Antimicrobial properties built in to protect against stain-causing bacteria, mold and mildew on the dried paint film.

\*Epoxyguard Enamel conforms to the USDA-FSIS regulatory sanitation performance standards for coatings in contact with food establishment facilities.

Product Qualifications	
Cal Green	Yes
OTC (Industrial Maintenance)	Yes
SCAQMD (Industrial Maintenance)	Yes
CARB (Industrial Maintenance)	Yes
LEED (New Construction)	Yes
LEED (New Schools / CHPS)	Yes

### PREPARATION:

Surface preparation is critical to product performance. The surface to be coated must be dry (< 15% moisture) and clean, free from all dirt, dust, oil, grease, wax and any loose materials or contaminants which inhibit adhesion.

### BARE CONCRETE SURFACES:

Bare concrete surfaces must be fully cured, porous, structurally sound, and free from rock pockets, voids and cracks.

### DRYWALL:

Apply **AQUAPRIME** or a PVA primer prior to **EPOXYGUARD ENAMEL** if applying direct to a drywall surface.

### PREVIOUSLY PAINTED CONCRETE SURFACES:

The composition of the existing coating must be determined prior to application.

**LATEX BASED PAINT:** Remove all loose, peeling or poorly bonded paint. Surfaces must be mechanically cleaned and abraded, using 60-80 grit sandpaper. Dull glossy surfaces by sanding or by using a chemical deglosser. Clean surfaces by scrub washing with a solution of ½ cup TSP to one gallon of warm water. Pay special attention to areas where build-ups of dirt, grease and oil exist. These areas should be scrubbed clean.

### TECHNICAL DATA:

<b>#4000 Neutral Base</b>	
Solids by weight, Neutral Base (ASTM D2369)	39% ±2
Solids by volume, Neutral Base (ASTM D2697)	30%
Weight per gallon, Neutral Base	9 lbs
<b>#4025 Deep Tone Base</b>	
Solids by weight, Deep Tone Base (ASTM D2369)	41% ±2
Solids by volume, Deep Tone Base (ASTM D2697)	33%
Weight per gallon, Deep Tone Base	9.5 Lbs
VOC Level (ASTM 2369)	2 g/L
<b>#4050 White Base</b>	
Solids by weight, White Base (ASTM D2369)	46% ±2
Solids by volume, White Base (ASTM D2697)	37%
Weight per gallon, White Base	10.5 lbs
VOC Level (ASTM 2369)	5 g/L
Flash Point	None
Viscosity	105-115 KUs
Finish	Semi-Gloss: 35-77°, Low-Gloss: 25-35°, Eggshell: 10-25° <i>[Based on MPI Gloss Levels @60°]</i>
Hardness, Pencil (ASTM D3363) Scratch/Gouge	2H
Scrub Resistance (ASTM D2486)	2,000 + cycles
Dry Time @70°F-80°F	30 Minutes
Recoat Time	1-2 Hours
Moisture Vapor	Excellent
Chemical and Stain Resistance (ASTM D1308)	See Table 1
Outdoor Weathering Gloss Retention (ASTM D4587)	92%

**OIL BASED PAINT:** Prime with **MONOCHEM 21** or remove all existing oil based coatings by sandblasting, shot blasting, or bead blasting. This includes all chlorinated rubber and solvent based finishes such as oil based enamels, epoxies, urethanes, etc.

### METAL SURFACES:

**Non Ferrous (galvanized, aluminum, stainless steel):** Remove all oils or films with a neutral detergent or emulsion cleaner. Blast lightly with fine abrasives or conduct a light etching. Then rinse using a Zinc treatment and apply **EPOXYGUARD ENAMEL** within 3-6 hours to avoid oxidation.

**Corrosive Metals:** Remove all the adhesion affecting rust, dirt, grease and other contaminants by one of the following depending on the degree of cleanliness required: Blast SSPC-SP3; SSPC-SP2; SSPC-SP6; SSPC-SP7. Blasting lightly with fine abrasives or conducting a light etching are also options. Then prime with a rust inhibitive primer within 3-6 hours.

### WOOD SURFACES:

Sand wood to a rough finish to provide "tooth" for the coating. We require sealing all weather exposed sides of the wood to prevent moisture penetration. Always prime wood surfaces prior to applying **EPOXYGUARD ENAMEL**.

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PROTECTIVE COATINGS

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**SUGGESTED PRIMERS:**

Use **AQUAPRIME** for drywall, plaster, wood, concrete or over existing water base acrylics.

Item No. 5900 - AQUAPRIME Multi-Surface Primer

Item No. 2121 - MONOCHEM 21 Epoxy Primer for application over oil base coatings or non-porous surfaces.

**NOTE:** Always apply a test patch to check adhesion, compatibility and for proper visual and performance results. Responsibility for determining the adhesion of **EPOXYGUARD ENAMEL** to an existing finish rests with the applicator.

**APPLICATION:**

- Apply **EPOXYGUARD ENAMEL** only when surface temperature is between 50°F to 90°F.
- Stir thoroughly and apply with a high quality brush, roller, paint pad or sprayer.
- Airless Spray: .013 - .015 orifice at 1500-2000 psi
- **Recoat Time:** ½ - 1 hour between coats.
- Thinning slightly with water will help avoid streaks in direct sun (up to one pint of water per gallon).
- **Spread Rate:** 350-400 square feet per gallon. 4 mils wet; 1.5 mils dry.
- Surfaces with a pH of 8+ require **AQUAPRIME**.
- Do not apply to surfaces displaying hydrostatic pressure.

**PACKAGING & TINTING:**

**EPOXYGUARD ENAMEL** is packaged in one-gallon cans and five-gallon pails. It is available in three bases: neutral, deep and white and white base and can be tinted to any color using Universal Colorants.

**Neutral Base - Short-Fill: 12 Ounces per gallon**

ITEM NO. 4000 Neutral Base, Semi-Gloss

ITEM NO. 3930 Neutral Base, Eggshell

**Deep Tone Base - Short-Fill: 8 Ounces per gallon**

ITEM NO. 4025 Deep Tone Base, Semi-Gloss

ITEM NO. 3925 Deep Tone Base, Eggshell

**White Base - Short-Fill: 2 Ounces per gallon**

ITEM NO. 4050 White Base, Semi-Gloss

ITEM NO. 3950 White Base, Eggshell

**SAFETY & FIRST AID:**

Contact with eyes can create irritation. If in contact, flush the eye area with water for 10 minutes. If swallowed, do not induce vomiting and consult a physician. Use in well ventilated areas. Keep the container tightly closed when not in use. Consult SDS for additional details.

**TABLE 1  
CHEMICAL RESISTANCE  
(ASTM D 1308)**

Water.....	Excellent
Diesel Fuel .....	Excellent
Gasoline .....	Excellent
Brake Fluid .....	Excellent
Ammonia .....	Excellent
Vinegar.....	Excellent
10% Sodium Hydroxide.....	Excellent
Spic & Span .....	Excellent
Acetic Acid.....	Excellent
Soap.....	Excellent
10% Sulfuric Acid .....	Excellent
Cleaner Fantastic .....	Excellent
Mineral Spirit .....	Excellent
50/50 Mineral Spirit / Xylene .....	Excellent
Xylene .....	Limited
MEK .....	Limited
Permanent Ink .....	Limited
Red Crayon .....	Limited

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